Global and China Lithium Iron Phosphate (LiFePO4) Materials and Battery Industry Report, 2010-2011

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This report

- **Analyzes the LiFePO4 Materials in China and Worldwide .**
- **Focuses on LiFePO4 battery industry in China**
- **Highlights the operation of LiFePO4 Materials enterprises and LiFePO4 battery enterprises in China**

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Abstract

Boasting high safety, long cycle life and high temperature resistance, lithium iron phosphate (LiFePO4) battery has become the most cutting-edge product in the lithium battery industry, finding wide application in electric vehicles, power tools, electric bicycles and energy storage market over the past two years.

The rapid expansion of the lithium iron phosphate battery market has also spurred the demand for lithium iron phosphate materials. Currently, the global supply of lithium iron phosphate materials is highly under control of A123 System, Valence, and Phostech of the United States.

The report analyzes the market supply and demand of lithium iron phosphate materials in China and worldwide, and predicts the size of major application market of lithium iron phosphate batteries in China. In addition, the report focuses on seventeen key lithium iron phosphate materials producers in China and worldwide including A123 Systems, Formosa Energy & Material Technology Co., Ltd., Tianjin STL Energy Technology Co., Ltd., Pulead Technology Industry Co., Ltd. as well as eight key lithium iron phosphate battery manufacturers including BYD, Tianjin Lishen Battery Joint-stock Co., Ltd., Shenzhen BAK Battery Co..

Tianjin STL Energy Technology Co., Ltd. produces phosphate lithium battery anode materials. With continuous lithium iron phosphate materials preparation technology, it has expanded capacity in recent two years. Capacity of lithium iron phosphate materials in 2009 was 2,000 tons, and 4,000 tons in 2010. It has a total of 14 production lines.

Shenzhen BTR New Energy Materials, Inc. mainly produces lithium-ion battery anode and cathode materials. In 2010, it achieved sales and net income of RMB 600 million and RMB 77.33 million respectively. It's progressively expanding the capacity of lithium iron phosphate. Its 3,000T/Y lithium iron phosphate material project got approval in 2010, and is under construction at present. In 2011, it's engaged in the construction of a 2,000T/Y lithium iron phosphate material production line in Tianjin.

Key Lithium Iron Phosphate Materials Producers and Capacities in China, 2010

Company	Capacity (ton/year)
Tianjin STL Energy Technology	4,000
Pulead Technology Industry	2,000
Yantai Zhuoneng Battery Material	600
Hefei Guoxuan High-tech Power Energy	500
Shenzhen Tianjiao Technology Development	500
Shenzhen BTR New Energy Materials	400
Hunan Haorun Technology	300
Xinxiang Chuangjia Power Supply Material	200
Xi'an TIHOO New Energy Materials	200
Xinxiang Huaxin Energy Materials	100

Source: ResearchInChina

BYD is China's only enterprise mastering the technology for large-scale production of automotive lithium iron phosphate battery pack. Its independently-developed "iron battery" has been successfully applied in BYD's all-electric E6 and hybrid F3DM vehicles. In 2011, BYD issued 79 million shares, raising RMB 2.192 billion, mainly for the lithium battery and automotive R & D and production base project. BYD will further increase its "iron battery" investment in the future.

Shenzhen Mottcell Battery Technology Co., Ltd. is mainly engaged in the production of lithium iron phosphate battery. Moving to the new plant in 2011, it has further expanded capacity, and now can produce 150,000 Ah of lithium iron phosphate batteries per day.

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